

**GROWTH FACTOR POLYPEPTIDES AND NUCLEIC ACIDS ENCODING  
SAME**

**ABSTRACT**

Disclosed are novel PDGFD nucleic acids encoding proteins and polypeptides related to bone morphogenetic protein-1 (BMF1), to vascular endothelial growth factor E (VEGF-E) and to platelet derived growth factor (PDGF). Also disclosed are vectors, host cells, antibodies, and recombinant methods for producing these nucleic acids and polypeptides. Methods of use include detecting and staging of cancers.

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